

WIKIMEDIA COMMONS

Hal Abelson in 2007.

Haldun Anil elected as next president of IFC Exec Board

Hopes for improved communication, a more focused Greek Week, progress on sexual assault

By Tushar Kamath
NEWS EDITOR

This year the Interfraternity Council (IFC) will be led by Haldun Anil '15, a member of Theta Chi who will serve as the president of the newly-elected executive board. The organization, according to Anil, has hopes of "bettering communication to outside entities" and working towards a state where "we as a campus are much more connected and there is a stronger bond in [the] community."

Anil, who served as Recruitment Chair on the IFC Executive Board last year, wants "to pick up where Dorne left off," referring to Andrew L. Dorne '14, the previous board's president. Anil believes that the fraternity community is much stronger than in previous years as a result of Dorne's work.

With regard to improving communication across organizations, Anil states, "I want to make sure if any fraternity has a problem, they can come to me. If it pertains to anything

that we have on campus [I hope] that I'll be able to reach out to the right administrator and have the relationships in place to talk with them as openly as I can. That is something that has been lacking."

Not only does Anil want to improve internal communication, but he also hopes to change some of the major public-facing events put on by the IFC, including Greek Week. "Revamping Greek Week is something, historically, we wanted to do a good job with. We want to pinpoint things that fraternities want out of this event," concludes Anil. Greek Week is an annual event sponsored by the IFC and the MIT Panhellenic Association (Panhel) in which, according to the website, "offers MIT students the opportunity to show their Greek pride while participating in a variety of both fun and competitive events."

The IFC also plans to make strides regarding sexual assault prevention and response.

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IN SHORT

Applications for EECscon are due Friday, February 14th. If you are an MIT undergraduate performing research in an EECS-affiliated lab or an EECS undergraduate performing research anywhere, and would like to show your work to the MIT community, apply to present at EECscon, which is being held Apr. 16.

Feb. 15 is the deadline to waive the MIT Student Extended Insurance Plan or to enroll your family. To waive, go to <http://www.medweb.mit.edu> and file your electronic waiver.

The deadline for the Minor Completion form for final-term seniors is Feb. 21. Bring copies of the completed form to the Undergraduate Office of your minor and to your faculty advisor. There is a \$50 late fee, so don't forget if you're graduating this June.

Send news information and tips to news@tech.mit.edu.

Gavin begins work as first Frank Stanton Chair

Prof. will facilitate collaboration among political scientists, historians, policymakers

By Peter Dunn
MIT NEWS OFFICE

Politics has been part of human culture, and the subject of scholarly inquiry, for millennia. But only 70 years have passed since the epochal arrival of nuclear weapons, and our understanding of nuclear proliferation, deterrence, and arms control, and their complex relationships with traditional political issues, is still a work in progress.

The Department of Political Science and its interdisciplinary Security Studies Program (part of the Center for International Studies) have been deeply engaged with these topics since the 1970s. 2014 marks a major extension of this engagement, with the appointment of Francis J. Gavin as the first Frank Stanton

Chair in Nuclear Policy Studies, on the strength of a \$5 million endowment from the Stanton Foundation.

"We're in a renaissance of nuclear studies now, and MIT is at the center of it — a majority of the scholars whose work I most admire have come from this program," says Gavin, who joins the Institute after 14 years at the University of Texas at Austin, where he launched and led the Robert S. Strauss Center for International Security and Law and served as the first Tom Slick Professor of International Affairs at the Lyndon B. Johnson School of Public Affairs.

"The Security Studies Program brings together scientists and the engineering community; military people who have to deal with the realities of command

and control, custody, and training; and people who worry about diplomacy and the politics that surround it," Gavin says. "It's a truly interdisciplinary environment, and it makes me feel like a student all over again."

Gavin earned PhD and master's degrees from the University of Pennsylvania, a master's degree from Oxford, and a bachelor's degree from the University of Chicago, and he has held numerous fellowships, including posts at Harvard's Kennedy School of Government and Center for International Affairs and a senior research fellowship at the Nobel Institute in Norway. He began work at MIT in January, and he is planning to teach graduate and undergraduate classes on nuclear politics and history and on international security

and U.S. foreign policy.

He is also eager to encourage and facilitate "research that has true policy relevance — on front-page issues like Iran and North Korea," he says. "Our scholarship can help policymakers create better policies." To this end, he hopes to connect MIT with the Strauss Center's Nuclear Studies Research Initiative, which fosters collaboration among historians, political scientists, and policymakers.

The new chair honors distinguished CBS executive Frank Stanton, who was introduced to nuclear issues while serving on a presidential panel in 1954. Stanton's assignment was to develop a plan for maintaining national and international communica-

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Q.E.D. TACKLES VALENTINE'S DAY

What is the perfect gift for the scientist in your life? How about an economist? **FUN, p. 7**

THE TECH SIDE OF CREATIVITY

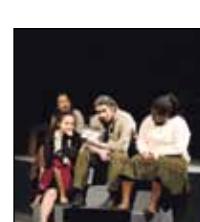
Conference presents creativity research.

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ARCADIA INTERVIEWS

A look behind the scenes.

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LITTLE SHOP

MIT Musical Theater Guild presented the show based on the movie *Little Shop of Horrors*, all prepared over IAP this year.

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CHECK OUT TECHDOKU

We won't tell anyone you spent Valentine's day doing number puzzles. **FUN, p. 8**

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China's lunar rover reported to be malfunctioning

China's recent moon launch was to be a testament to the country's technological prowess as it joined Russia and the United States in the exclusive club of countries sending successful "soft landing" missions that allow them to explore the lunar surface.

And everything seemed to be going right until recently, when the lunar rover, called the Yutu, or Jade Rabbit, malfunctioned, leaving its fate in doubt — and raising questions about the country's abilities to fulfill its vast ambitions in space.

The China News Service said Wednesday that the rover "could not be restored to full function." But that was followed Thursday with a report by Xinhua, the state news agency, saying that the Jade Rabbit had "come back to life" and that its signal reception was back to normal — but that its fate was still uncertain.

According to the website of Guangming Daily, a Chinese state-run newspaper, Pei Zhaoyu, a spokesman for China's lunar program, said: "Jade Rabbit entered sleep in an abnormal state. Initially, we were worried that it wouldn't be able to handle the extremely low temperatures of the lunar night, but it came around. At least it's still alive, and so there's the chance of saving it."

The mission carries symbolic significance for China and was seen as a precursor to more ambitious lunar operations by a country that seeks to have a small space station aloft within a decade. When the rover landed in mid-December, engineers involved in the project were seen on television embracing and crying over the mission's initial success.

But three weeks ago, cryptic signals began emerging about its troubles, with state media posting a supposed statement by the hobbled spacecraft in which it ruminated about its impending demise, saying, "Although I should've gone to bed this morning, my masters discovered something abnormal with my mechanical control system."

It added, "I'm aware that I might not survive this lunar night."

—Gerry Mullany, *The New York Times*

Italy's prime minister resigns amid party revolt

ROME — Italian Prime Minister Enrico Letta, whose weak coalition government has come under increasing criticism, announced Thursday that he would resign, after his own Democratic Party staged a dramatic insurrection and set the stage to replace him with the party's new leader, Matteo Renzi.

The Democratic Party is the largest member of Italy's coalition government, and the party's decision to dump Letta could be put to a confidence vote in Parliament. Letta will meet with his Cabinet on Friday morning and then present his resignation letter to Italy's president, making way for Renzi, 39, to become Italy's youngest prime minister.

Renzi, the mayor of Florence who recently won a nationwide primary to become leader of the Democratic Party, has a reputation for boldness and has long been considered Italy's most promising young politician. He has spoken repeatedly about the need for sweeping political and economic changes. But few analysts foresaw that he would lead a revolt against his party's sitting prime minister. "Italy is living in a moment of difficulty," Renzi said during a televised emergency meeting of the Democratic Party on Thursday afternoon. "We need to offer the possibility to emerge from this morass with a radical program to relaunch the country."

Italy is suffering through a prolonged recession, even as some other European countries are starting to emerge from a devastating downturn. Unemployment tops 12 percent, and while business leaders have called for major reforms to spur economic growth, Italy's political system has been stalemated, largely unable to respond.

—Jim Yardley, *The New York Times*

Chobani: Yogurt intended for Olympians to be donated

By Thomas Kaplan
THE NEW YORK TIMES

In the Cold War over yogurt, America blinked.

The yogurt maker Chobani conceded defeat Thursday in its stand-off with the Russian government, which has refused to allow a shipment of the Greek yogurt intended for the U.S. Olympic team at the Winter Games in Sochi to enter the country.

No amount of dairy diplomacy could break the impasse. Chobani said it would donate the yogurt, which has been held in refrigerated storage near Newark Liberty International Airport, to New York and New Jersey food banks.

"We tried our best," said Hamdi Ulukaya, the founder and chief executive of Chobani, who said he was disappointed that the Russian government had not been more accommodating.

"Nobody should fight over a beautiful cup of yogurt," Ulukaya said. "If anything, it brings culture to everybody."

Chobani's announcement

ended more than a week of international intrigue, as two powerful nations squared off over a protein-rich dairy product.

Russian authorities would not allow delivery of the yogurt because they said it lacked the proper customs certification. U.S. officials said that was just an excuse to keep the yogurt out of the country. The two countries had already been squabbling over dairy goods; U.S. dairy exports have been barred from Russia since 2010.

The blockade outraged American yogurt aficionados, including several who hold elected office.

Leading the charge was Sen. Charles E. Schumer of New York. Chobani was founded in upstate New York, and yogurt production is now a booming industry there.

Behind the scenes, Schumer urged the Obama administration to step up its pressure on Russian officials who were objecting to the yogurt delivery. Publicly, he released an urgent letter addressed to the Russian ambassador, in an attempt to shame the country into action.

Aides to Sen. Kirsten E. Gil-

ibrand of New York also tried to help, telephoning the Russian embassy in an effort to break the impasse.

But the yogurt remained grounded.

The disappointment was felt as far away as Idaho, where Chobani has a manufacturing plant. Some of the yogurt bound for Sochi came from the Idaho plant, and some came from the company's original plant in central New York.

Gov. C.L. Otter of Idaho was among the elected officials who rushed to Chobani's defense.

"It's unfortunate that bureaucracy played a role in depriving American athletes in Sochi of this wholesome and nutritious American-made product," Otter said.

On Thursday, on Twitter, Schumer posted a picture of himself enjoying a cup of Chobani and examining a map of Russia. Schumer said Russia's anti-Chobani stance had a consequence; he and a number of other lawmakers now planned to tackle the broader issue of U.S. dairy exports being blocked from Russia.

Study: methane leaks negate climate benefits of natural gas

By Coral Davenport
THE NEW YORK TIMES

WASHINGTON — The sign is ubiquitous on city buses around the country: "This bus runs on clean burning natural gas."

But a surprising new report, to be published Friday in the journal *Science*, concludes that switching buses and trucks from traditional diesel fuel to natural gas could actually harm the planet's climate.

Although burning natural gas as a transportation fuel produces 30 percent less planet-warming carbon dioxide emissions than burning diesel, the drilling and production of natural gas can lead to leaks of methane, a greenhouse gas 30 times more potent than carbon dioxide. Those methane leaks negate the climate change benefits of using natural gas as a transportation fuel, according to the study, which was conducted by scientists at Stanford

University, the Massachusetts Institute of Technology and the Department of Energy's National Renewable Energy Laboratory.

The study concludes that there is already about 50 percent more methane in the atmosphere than previously estimated by the Environmental Protection Agency, a signal that more methane is leaking from the natural gas production chain than previously thought.

"Switching from diesel to natural gas, that's not a good policy from a climate perspective," said the study's lead author, Adam R. Brandt, an assistant professor in the department of energy resources at Stanford.

But the study does conclude that switching from coal-fired power plants — the nation's largest source of carbon pollution — to natural gas-fired power plants will still lower planet-warming emissions overall. Natural gas emits just half the

carbon pollution of coal, and even factoring in the increased pollution from methane leaks, natural gas-fired plants lead to less emissions than coal over 100 years, the study found.

The report adds weight to efforts by New York and other Northeastern states to push the federal government to regulate methane emissions. Currently, there are no federal regulations on methane emissions from oil and gas production, although some states are considering such rules.

The finding on trucks and buses is a blow to years of public policy efforts to switch the vehicles from diesel to natural gas, an effort aimed at decreasing pollution as well as America's dependence on foreign oil. President Barack Obama praised natural gas production in his past two State of the Union addresses, and he has noted that natural gas production creates jobs.

WEATHER

Boston digs out from storm

By Kathryn Materna
STAFF METEOROLOGIST

Winter storm leaves Boston with several inches of snow.

Yesterday's winter storm brought 2-4 inches of wet snow to the Boston area, in addition to rain, freezing rain, and snow. Today, this system will move away towards Nova Scotia. This storm was a nor'easter, a type of extratropical cyclone over the North Atlantic. Nor'easters form in response to large temperature contrasts between warm air above the Gulf Stream and cold Arctic air. Nor'easters get their name for the winds in the upper-left quadrant of the storm, which blow from northeast to southwest as they push rain and

snow onto the New England coast.

By the afternoon, this nor'easter will move beyond Nova Scotia (see the 972mbar low pressure system on the map), giving us a little sunshine. Temperatures may even break into the 40s. The combination of the low pressure system to our north and the afternoon warmth will result in large pressure gradients in the atmosphere, and thus strong winds. Winds may be as strong as 25 mph at certain times this afternoon.

Over the weekend, there is a chance for snow showers on Saturday as a fast-moving low pressure system passes by. After this, a cold mass of air will move in, keeping things dry but chilly for the holiday weekend.

Extended Forecast

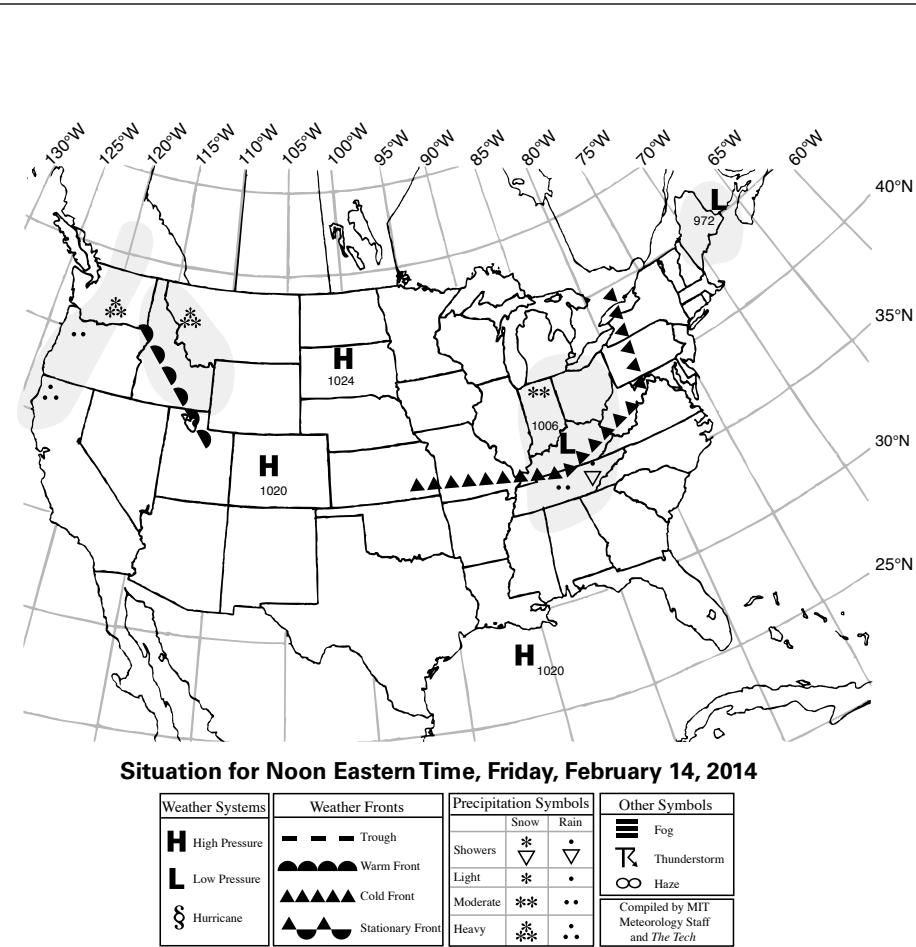
Today: Overcast with a chance of snow, clearing in the afternoon, with a high of 39°F (4°C). Winds from the west at 15-20 mph. Little to no additional snow accumulation.

Tonight: Overcast, low of 25°F (-4°C). Wind at 5-10 mph.

Tomorrow: Overcast, with high of 34°F (1°C). 50% chance of snow, with 0-2 inches of accumulation.

Sunday: Sunny, with a high of 27°F (-3°C).

Monday: Sunny, with a high of 27°F (-3°C).



One in five insured under new health law did not pay on time

By Robert Pear
THE NEW YORK TIMES

WASHINGTON — One in 5 people who signed up for health insurance under the new health care law failed to pay their premiums on time and therefore did not receive coverage in January, insurance companies and industry experts say.

Paying the first month's premium is the final step in completing an enrollment. Under federal rules, people must pay the initial premium to have coverage take effect.

In view of the chaotic debut of the federal marketplace and many state exchanges, the White House urged insurers to give people more time, and many agreed to do so. But, insurers said, some people missed even the extended deadlines.

Lindy Wagner, a spokeswoman for Blue Shield of California, said that 80 percent of the people who signed up for its plans had paid by the company's due date, Jan. 15. Blue Shield has about 30 percent of the exchange market in the state.

Matthew N. Wiggin, a spokesman for Aetna, said that about 70

percent of people who signed up for its health plans paid their premiums. For Aetna policies taking effect Jan. 1, the deadline for payment was Jan. 14, and for products sold by Coventry Health Care, which is now part of Aetna, the deadline was Jan. 17. Mark T. Bertolini, the chief executive of Aetna, said last week that the company had 135,000 "paid members," out of 200,000 who began to enroll through the exchanges.

"I think people are enrolling in multiple places," Bertolini said in a conference call with securities analysts. "They are shopping. And what happens is that they never really get back on HealthCare.gov to disenroll from plans they prior enrolled in."

Kristin E. Binns, a vice president of WellPoint, one of the nation's largest insurers, said that 76 percent of people selecting its health plans on an exchange had paid their share of the first month's premium by the due date of Jan. 31.

Binns said the company had received more than 500,000 applications for individual coverage through the exchanges in 14 states.

Julie Bataille, a spokeswoman

for the Centers for Medicare and Medicaid Services, which runs the federal exchange and supervises state marketplaces, said the government did not know how many people had paid their premiums and thus "effectuated" coverage. But in interviews and in the quarterly reports on their financial performance, insurers provided data indicating that four-fifths of applicants had met payment deadlines.

One big company, Humana, said it had received 200,000 applications for insurance through the exchanges.

"About 75 percent of the people paid, and 25 percent did not pay," said Thomas T. Noland Jr., a senior vice president of Humana. Customers had until Jan. 31 to pay for coverage that took effect on Jan. 1.

Greg Thompson, a spokesman for the Health Care Service Corp., which offers Blue Cross and Blue Shield plans in Illinois, Texas and three other states, said that "around 80 percent" of people choosing those plans had paid their first month's premium by the Jan. 30 due date.

Apple says supplies don't come from war zones

SAN FRANCISCO — Apple released on Thursday its supplier responsibility report, and the company said its hardware factories did not use any tantalum, a metal commonly used in electronics, from areas engaged in warfare.

Some warlords, particularly in the Democratic Republic of Congo, have profited from the sale of ores containing tantalum, tungsten, tin and gold to suppliers that make parts for electronics.

A grass-roots campaign has been pressing technology giants to keep minerals from those areas — often called conflict minerals — out of their supply chains.

The company said it had verified through third parties that the tantalum smelters used by its suppliers were conflict-free. It said it was pushing suppliers of tin, tungsten and gold also to use sources verified as conflict-free.

Nokia spoke up about conflict minerals two years ago and published a list of steps it was taking to avoid transactions involving conflict minerals.

In its report, Apple also said that it was trying to put an end to excessively long workweeks. It said that last year it drove suppliers to an average of 95 percent compliance with its standard for a maximum workweek of 60 hours, up from 92 percent compliance the previous year.

"We limit workweeks to 60 hours, except in unusual circumstances," the company said in its report. "And all overtime must be absolutely voluntary."

Apple said it was investing in helping workers throughout its supply chain. It said that last year, more than 280,000 people at 18 supplier sites took courses offered through its free education program, and suppliers trained about 1.5 million workers on their rights.

Apple released a list of its major suppliers as part of its supplier responsibility report for the first time two years ago, following corporations like Hewlett-Packard, Intel and Nike, which have released similar lists.

This is the eighth such report that Apple has released.

The company started conducting audits and publishing reports in 2007 after media reports of poor working conditions at Foxconn, a Chinese manufacturer of products for Apple, Sony, Microsoft and others.

—Brian X. Chen, *The New York Times*

China to reward localities for improving air quality

BEIJING — Chinese officials announced Thursday that they were offering a total of 10 billion renminbi (\$1.65 billion) this year to cities and regions that make "significant progress" in air pollution control, according to a report by Xinhua, the state-run news agency.

The announcement came from the State Council, China's Cabinet, after it held a meeting Wednesday to discuss, among other issues, the country's immense air pollution problem. "Control of PM2.5 and PM10 should be a key task," the State Council said in a statement, referring to two kinds of particulate matter that are deemed harmful to human health.

The meeting was presided over by Li Keqiang, a member of the Communist Party's ruling Politburo Standing Committee and China's prime minister.

The announcement of the financial incentives revealed how difficult it has been for some leaders in Beijing to get many Chinese companies and government officials to comply with environmental regulations.

Though central officials have been saying with growing vigor that pollution of all kinds must be curbed, their efforts to force other parts of the bureaucracy and the state-run economy to obey rules have been stymied by the self-interest of some groups.

For example, the state-owned oil companies exert enormous influence on environmental policy, including the setting of fuel standards, and sometimes outright ignore orders from officials to upgrade their products.

On Thursday, Chinese news organizations reported that the Shanghai Academy of Social Sciences had deemed Beijing to be "almost unfavorable for human living."

The judgment was part of an annual report on the livability of 40 world cities released by the organization, which is tied to the Chinese government.

Beijing ranked second worst in environmental conditions, and Shanghai was the fifth worst. Other indexes used to evaluate the cities included economics, governance and cultural innovation, according to China Daily, an official English-language newspaper.

—Edward Wong, *The New York Times*

Tactic could skirt house GOP on immigration

WASHINGTON — Sen. Charles E. Schumer, D-N.Y., offered a long-shot option Thursday to revive the moribund effort to overhaul the nation's immigration laws that would require the support of more than a dozen House Republicans — and, if nothing else, pressure others to act on an election-year issue that Tea Party-aligned members strongly oppose.

The legislative maneuver, known as a discharge petition, would allow supporters of overhauling the nation's immigration laws to circumvent the Republican majority in the House by bringing the measure directly to the House floor, bypassing the regular committee process.

It is a rarely successful tactic, though it was used in 2002 to eventually win passage of a major campaign finance law.

Schumer, who was one of the architects of a broad-based rewriting of immigration laws that passed the Senate in June, accused House Republicans of trying to "sweep this issue under the rug," and added, "In the next few months you're going to see increased pressure, and the discharge petition is one such way."

Lawmakers and aides in both parties say that a discharge petition, especially one coming from Schumer, whose views are strongly opposed by many House conservatives, is unlikely to succeed.

—Ashley Parker and Jonathan Weisman, *The New York Times*

Cable TV merger would also join Internet giants

By Edward Wyatt
THE NEW YORK TIMES

On the face of it, the merger of the two largest U.S. cable companies would seem like a non-starter, given its steep regulatory hurdles and skepticism from consumer watchdogs.

But Comcast's proposed acquisition of Time Warner Cable comes at a moment of seismic change in the television industry, with consumers increasingly cutting their cable cords and instead streaming their favorite shows via the Internet through services like Netflix, YouTube, Amazon and Hulu.

This shifting landscape may aid Comcast as it seeks to persuade government officials — and deploys its prodigious army of lobbyists — to get its \$45 billion takeover approved. "I believe television will change more in the next five years than in the last 50," Brian L. Roberts, Comcast's chief executive, has said.

Still, the combination of the two

companies, creating a cable and broadband behemoth serving 30 million customers across 42 states, is expected to come under intense scrutiny from the Obama administration, which has toughened its enforcement of federal antitrust laws.

But much of the focus Thursday on how the proposed deal would affect competition in cable TV overshadowed what could be a more important consideration for regulators: the merger's effect on broadband Internet service, which is rapidly becoming the most important pipe running into the homes of most U.S. consumers.

A merged Comcast and Time Warner Cable would have nearly twice as many high-speed Internet subscribers as the next largest company and would control roughly 38 percent of the high-speed Internet market, according to figures compiled by the Leichtman Research Group, an independent firm in Durham, N.H. The combined companies

would account for nearly 32 million broadband customers, compared with 16 million for AT&T and 9 million for Verizon.

The effect of the deal on cable-TV and Internet service prompted many consumer advocacy organizations to immediately express hostility toward the deal.

"This industry is notoriously unpopular with consumers due to poor customer service, not to mention ever-increasing bills, and a deal this size doesn't exactly convince us that things will get better," said Debra Derakhshani, policy counsel for Consumers Union.

Washington lawmakers also said they would give it close scrutiny. Sen. Amy Klobuchar, D-Minn., chairwoman of the Senate Antitrust Subcommittee, said that because the proposed merger "could have a significant impact on the cable industry and affect consumers across the country," she plans to convene a hearing to examine the deal.

OPINION OPINION OPINION OPINION



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The Tech (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations). Wednesdays during January, and monthly during the summer by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are \$50.00 per year (third class). **POSTMASTER:** Please send all address changes to our mailing address: The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. **TELEPHONE:** Editorial: (617) 253-1541. Business: (617) 258-8324. Facsimile: (617) 258-8226. Advertising, subscription, and typesetting rates available. Entire contents © 2014 The Tech. Printed on recycled paper by Mass Web Printing Company.



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MUSICAL REVIEW

Plants, blood and lots of singing

MTG engages audiences with *Little Shop of Horrors*

EURAH KO

MIT's Musical Theater Guild gave this year's final performance of *Little Shop of Horrors* last weekend.

By Tara Lee

What could be more innocent than a musical that takes place in a flower shop? Well, a flesh-eating Venus flytrap, a psychotic dentist, and a name like "Little Shop of Horrors" certainly rules out any hope for a light-hearted show. The musical, based on the film by Roger Corman, follows a florist named Seymour, who tries to revive his flower shop by raising a Venus flytrap that lives off human blood.

Presented by the MIT Musical Theater Guild (MTG) and directed by Greg Lohman '07, the IAP production of *Little Shop of Horrors* was another wonderful reminder of the artistic talent of the Institute's students. All of the work on the show happened

during the four weeks of IAP, culminating in six performances during the first week of February. Starring David Wright (as Seymour) and Noelle A. Colant '17 (as Audrey), the small eight-person cast pulled off an engaging, darkly comedic performance.

Highlights included the songs "Skid Row" (by the Company), "Mushnik and Son," and "Now (It's Just The Gas)," along with spectacular acting performances by Wright, Colant, Jonathan Sue-Ho '13 (as Mr. Mushnik), Hubert Hwang '07 (as Orin). The trio of doo-wop singers, Varsha J. Raghavan '14, Marian J. Heman-Ackah '16, and Mackenzie E. Devoe '15, sang with an impressive harmony — a feat that only achieved by hours of practice.

When asked what the most chal-

lenging component of the musical was, producer Sami Lewis '15 explained that making the Venus flytraps required intensive planning by their designers, Karen A. Hart '14, and Kathryn E. Shroyer '09. "All of the plants took many hours to build, even with everyone lending a hand. They are the show's main technical challenge, but MTG members enjoy the opportunity to combine their creative and engineering skills."

All in all, I highly recommend watching an MTG performance in the future. The guild performs four times a year (spring, summer, fall and IAP), and it is starting to put together its spring show, *Sweeney Todd*. It will be another dark musical, but I look forward to seeing the production in a few months.

MOVIE REVIEW

Endless runtime

A film even more clichéd than its title

By Rachel Katz
STAFF WRITER

Is there anything more overdone than a wealthy, overachieving, pretty girl falling for the charming boy from the wrong side of the tracks? *Endless Love* follows Ivy-League-bound Jade's predictable escape from the grips of her overprotective father and into the arms of bad boy David the summer after she graduates from high school.

Both protagonists are shallow characters. They have the archetypal broken pasts; Jade's brother passed away from an unspecified cancer two years ago, resulting in her father's overbearing nature, and David has a record of delinquency. At every turn, Jade's father acts selfishly and unreasonably, flattening his character into nothing but the stereotypical Father who thinks he knows best.

Even the romance is underdeveloped. One moment David and Jade are just people who see each other at school, and the next he's winning her heart by convincing people to come to her graduation party, and a few minutes of screen time later, they're in love. As you can probably guess, their whirlwind romance helps Jade loosen up and David focus his sights on previously unthinkable goals. The conflict in their story

*Endless Love*

Directed by Shana Feste

Starring Alex Pettyfer and Gabriella Wilde

Now Playing

comes from Jade's father's continual objection to her spending time with David and the occasional intervention of David's jealous ex-fling.

This type of story, while tired, can be entertaining. When John Hughes did it in the classic 1980s teen movie *Say Anything*, it was witty and fun, because the characters were developed past the shells of their stereotypes and frequently engaged in intelligent dialogue. It's hard to determine if *Endless Love* even attempted to layer cleverness into the cliché. The pacing was lightning fast, and the format was a summer love montage broken by the occasional, easily foreseeable plot "twists." I quite literally rolled my eyes at the dialogue on at least four separate occasions. I kid you not, there was a dramatic



QUANTRELL D. COLEBRT

Gabriella Wilde as Jade and Alex Pettyfer as David in the new romantic drama *Endless Love*.

pause and close up of David and Jade's faces before the words "say something" fell from the female protagonist's lips.

When it comes down to it, the movie was marketed as a Valentine's Day film, and it functions as just that. With a pleasing

soundtrack of pop-indie songs and a cutesy plot line that requires next to no attention, *Endless Love* is the perfect movie to go to with a date if you plan to sit in the back of the theater and not do much watching. Otherwise, I'd say skip it.

Campus Preview Weekend April 10-13, 2014



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Q.E.D. (QUITE EASILY DONE)

BY ERIKA TRENT

HOW NORMAL PEOPLE SEE VALENTINE'S DAY



HOW SCIENTISTS SEE VALENTINE'S DAY

A cartoon illustration showing a man on the left holding a bouquet of purple flowers and a woman on the right holding a box of chocolates. The man has a speech bubble above him that reads 'ABNORMAL OXYTOCIN RELEASE' with an arrow pointing to his head. The woman has a speech bubble above her that reads 'OVERACTIVE DOPAMINE + ADENOSINE RECEPTORS' with an arrow pointing to her head. Between them is a speech bubble that reads 'DYING ORGANISM ATTEMPTING TO POLLINATE' with arrows pointing to both the flowers and the chocolates.

HOW ECONOMISTS SEE VALENTINE'S DAY

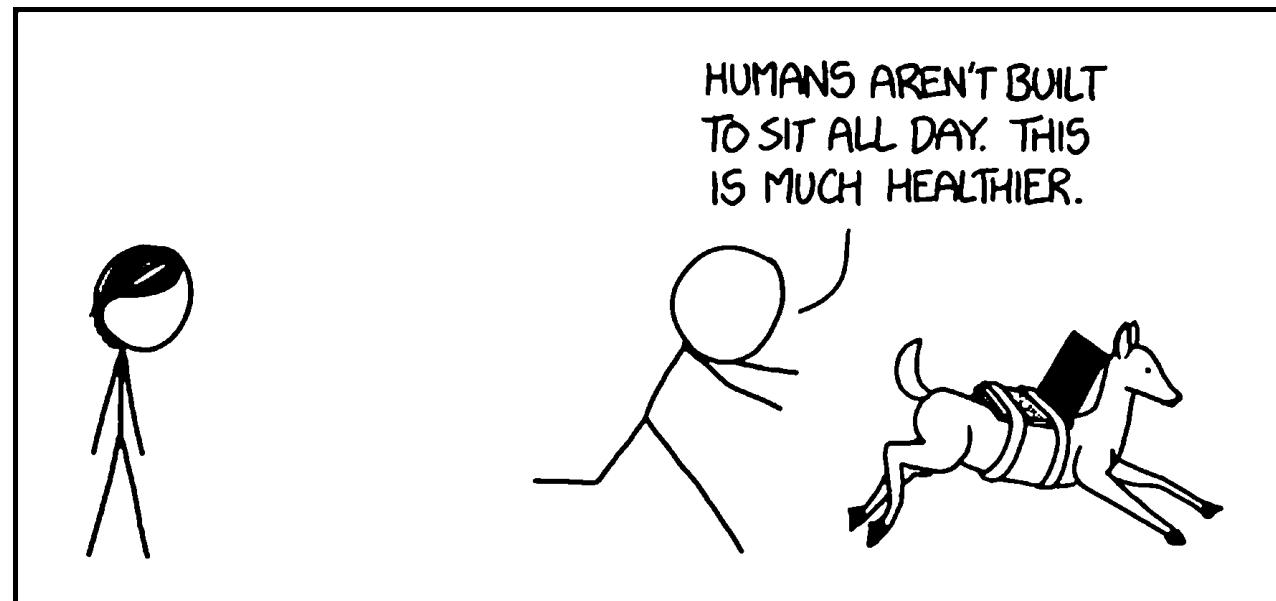
A cartoon illustration of a man in a yellow shirt giving a bouquet of purple flowers to a woman in a purple dress. The woman is holding a pink box of chocolates. Two arrows point from the text 'OPPORTUNITY TO PROMOTE CONSUMERISM' to the flowers and the chocolates.

UPPERCUT

by Steve Sullivan



[1329] Standing



**A WEBCOMIC OF ROMANCE,
SARCASM, MATH, AND LANGUAGE**

by Randall Munroe

HUMANS AREN'T BUILT
TO SIT ALL DAY. THIS
IS MUCH HEALTHIER.

MY HOBBY: ONE-UPPING THE STANDING DESK PEOPLE

Sudoku

Solution, page 11

			4			8		
7		3						
4		2				9		
	1	4	6	2		7		
2		9	7	5	4	8	6	
	5			1	3	4	2	
	4				6		2	
				5		7		
5				6				

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 11

144x						13+		
					25x			
						14+		
							2+	
								3
								2-
								48x
								75x
								2
								12x

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Off the Ground

by Bruce R. Sutphin

ACROSS

1 That sailboat
4 Stubborn ones
9 Tourney rounds
14 Courteney of Friends
15 Island near Venezuela
16 Wipe clean
17 Emulating rail riders
20 ___ Diary (Twain book)
21 Naval clerks
22 The Heat actress McCarthy
26 Turn bad
27 One of Pooh's pals
30 Hosp. facilities
31 Wood fastener
33 Committed a hoops infraction
35 Big name in water scooters
37 Moral misdeeds
38 Fluttering
42 Bistro name starter
43 Designated
44 Check cashers
47 Skillful
48 ___ INSIDE (store sign)
51 Leather tool
52 PD notice
54 More stylish
56 Debate topics
59 Arches National Park locale
60 Providing road service,
perhaps
65 Shaq's surname
66 Light on one's feet
67 Homer's neighbor

68 On edge
69 Tennis pro Petrova
70 JFK predecessor

DOWN
1 Conspiracy
2 Electrolux rival
3 Kicks out
4 ___ tai
5 Big brewer
6 Tow with difficulty
7 PayPal owner
8 Less perilous
9 Appear that way
10 Niagara River feeder
11 Mississippi's state flower
12 It means "sort of"
13 Ready to go
18 Tire-pressure no.
19 Car top
23 Process portion
24 Break off
25 42 Down work
28 Didn't stay
29 Mormons, in brief
32 In good shape
34 Did something with
35 Shoe salesperson's question
36 Folklore fiends
38 Pygmalion writer
39 Pie fruit
40 Radio switch
41 Software prototype
42 Tax pro

1	2	3		4	5	6	7	8		9	10	11	12	13
14				15						16				
17			18						19					
20						21								
22			23	24	25		26				27	28	29	
30			31		32		33		34					
		35			36		37							
38	39				40	41								
42				43							48	49	50	
44			45	46		47								
51			52		53		54			55				
	56	57			58				59					
60	61				62	63	64							
65				66						67				
68				69						70				

45 With little effort
46 Created, as cotton candy
48 Show up to
49 Got misty
50 Literary alter ego
53 Got going
55 Same old thing

57 Minor run-in
58 Extensive tale
60 Scribble (down)
61 French article
62 Job estimate
63 Boxing great
64 Word before caddy or bag

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New Jersey subpoenas Tidbit

MIT's Office of the General Counsel referred Jeremy Rubin, subpoena recipient and student, to the EFF

Tidbit, from Page 1

"[a]ll codes, source codes, control logs, and installation logs concerning the Bitcoin code."

New Jersey later said they were investigating whether Tidbit had violated the New Jersey Consumer Fraud Act.

When Rubin approached MIT's lawyers after receiving the subpoena, they said they could not represent Rubin in court, but one of them advised Rubin to seek help from the Electronic Frontier Foundation, which advocates for digital rights. EFF agreed to help Rubin *pro bono*, and they have moved to quash the subpoena.

But Abelson, a computer science professor and a founding director of Creative Commons, said that MIT should do more and contact both the New Jersey judge and the New Jersey attorney general.

MIT's response was "Hey, I know a good lawyer," Abelson told *The Tech*. "MIT should have said, 'Hey, this is MIT business because it is harmful to the institution."

Part of MIT's mission, "training young people to imagine, create, and disseminate projects that expand the possibilities of technology," the petition said, is "under serious risk." MIT's administration "is not working to mitigate that risk."

Provost Martin A. Schmidt PhD '88 said that the petition was "a little out of the blue." Schmidt and Chancellor Cynthia Barnhart PhD '88 both cited the way MIT helped Rubin find free legal help at the EFF as an example of how MIT had Rubin's "best interest" in mind.

"MIT stands ready to support these students in their defense against the legal actions against

them," a statement from MIT on Thursday read. "We are eager to work with them and their counsel in a vigorous defense of this matter."

For Abelson, it's a bigger question than whether MIT supports these students. He said that MIT should take action as an institution to protect not only these students, but also the academic freedom he said is necessary to allow future innovators to thrive.

"New Jersey's subpoena challenges our ability to share our work," the petition reads. "If Rubin and his fellow MIT undergraduates experience serious legal consequences for describing their ideas in public, and if MIT declines to support them, how can we ever responsibly continue to advise our students to disseminate their work in public? Furthermore, since Tidbit is an innovation that could have been produced by faculty or graduate students in the course of our own research, we consider this subpoena to have a chilling effect on our own work."

The petition is addressed to President L. Rafael Reif. According to a note from Abelson, the Media Lab's Ethan Zuckerman, and Nathan J. Matias G, they plan to send the petition to Reif next Monday.

The Student Information Processing Board (SIPB) also plans to write a letter to Reif urging MIT to support Rubin and his hackathon teammates, according to SIPB's chair, Justin M. Dove G. The student group also plans to provide an example letter to undergraduates and encourage them to send their own letters to Reif.

Last year, Abelson led an investigation, commissioned by Reif, into MIT's involvement in the pros-

ecution of Internet activist Aaron Swartz. The report that came out of that investigation concluded with several questions, including "Should an MIT education address the personal ethics and legal obligations of technology empowerment?" and "What are MIT's obligations to members of our extended community?" The report also asked what MIT should do, internally and in the public sphere, to support "hacker culture" and technical innovation.

But Abelson said there is "a big difference" between the Swartz case and the subpoena served to Rubin and Tidbit. "These students did nothing wrong. Not a thing. For whatever Aaron's intentions were, what these students did was not even mischievous."

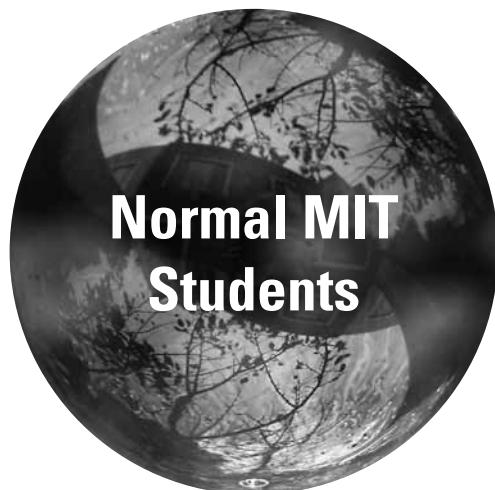
Rubin's lawyer at EFF, Hanni Fakhoury, has said that the hackathon project was only a proof of concept and that Tidbit did not even have the ability to mine bitcoins yet.

Fakhoury also argued that New Jersey has no jurisdiction over Tidbit and asked that Rubin be granted immunity from prosecution should the subpoena stand, citing constitutional protections against self-incrimination.

In response, the New Jersey acting attorney general wrote that New Jersey was "authorized to investigate whether any person, whether located in New Jersey or elsewhere, has engaged in, is engaging in or is about to engage in any unlawful practice in violation of the [New Jersey Consumer Fraud Act] that affects New Jersey consumers."

A court hearing is expected soon, but the date is still unknown, according to Fakhoury.

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Anil to lead the IFC

The new IFC exec will continue to tackle FSILG assembly issues

IFC, from Page 1

After President L. Rafael Reif's email and letter in *The Tech*, Anil claims that the IFC hopes to respond by making significant progress. "We are currently working with a number of groups around campus including VPR [Violence Prevention and Response] and SAFER² [Students Advocating for Education on Respectful Relationships]. I can't tell you specifically what our reaction will be yet, but you should expect to see some major news within my term," says Anil.

Haldun maintains that the IFC will continue to work with the Fraternity, Sorority, and Independent Living Group (FSILG) Office and Association of Independent Living Groups (AILG) on the assembly licensing issues facing the Boston fraternities this past semester. Anil could not mention specifics on the

update of the situation but claimed, "We are following and representing the concerns to the board and hope that it will be resolved soon."

Anil concluded that the IFC would be making noticeable changes in the coming year. "Because of our size and enthusiasm, we are capable of achieving a number of these programming changes" says Anil.

The other members of the IFC board are as follows:

Vice President: Samuel S. Oppenheim '16, Zeta Psi

Judicial Committee Chair: Ryan M. Lau '15, Phi Sigma Kappa

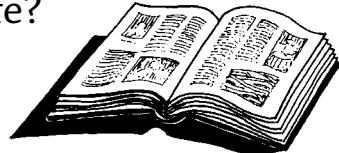
Recruitment Chair: Richard E. Chew '16, Kappa Sigma

Public Relations and Programming Chair: Kale T. Rogers '16, Delta Upsilon

Risk Manager: Shenghao D. Wang '16, Zeta Beta Tau

Executive Assistant and Treasurer: Obasi J. Onuoha '17, Zeta Psi

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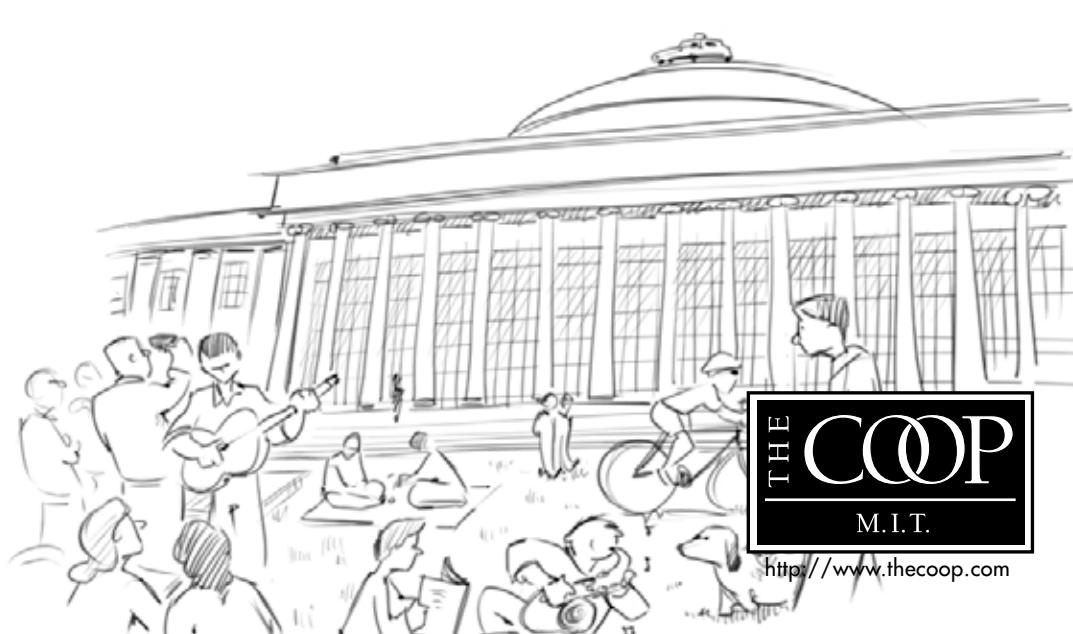
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News briefs, from Page 1

Harvard undergraduate passes away in car crash

On her way back from a Mock Trial tournament in Virginia, Angela R. Mathew, an undergraduate student attending Harvard, died in a car crash on the morning of February 10. Mathew was a neurobiology concentrator at Harvard who was competing as a member of the Harvard Mock Trial Association.

On their trip back, Mathew and six members of the team were inside a van in New Jersey when the accident occurred, according to Boston.com. KRQE News reported that Mathew herself was thrown out of the van when the crash occurred, and three other students in the van were hurt, but did not suffer serious injuries.

"As the girls she inspired grow up, Angela's spirit will live on in a new generation of women in the sciences," stated Co-Master of Leverett House Howard M. Georgi, in a vigil service for Mathews, according to The Crimson. More than 200 members of Harvard joined Georgi on Wednesday nights to remember Mathews and Stephen Rose, a graduate student who jumped to his death on February 6.

Mathews was a member of Leverett House, a Harvard dormitory, and hailed from Albuquerque, N.M. Along with being an executive member of the Harvard Mock Trial Association, Mathews was also the president of the Harvard science club for girls. "She would want us to smile," Kaleigh N. Henry, a Harvard undergraduate, said in memory of Mathew at Harvard's vigil.

—Patricia Dominguez and Tushar Kamath

Solution to Crossword

from page 8

S	H	E	M	U	L	E	S	S	E	M	I	S
C	O	X	A	R	U	B	A	E	R	A	S	E
H	O	P	P	I	N	G	A	F	R	E	I	G
E	V	E	S	Y	E	O	M	E	N			
M	E	L	I	S	S	A	R	O	T	O	W	L
E	R	S	T	N	U	T	F	O	U	L	E	D
S	E	A	D	O	O	S	I	N	S			
S	K	I	P	P	I	N	G	A	E	A	T	E
C	H	E	Z	—	T	E	R	M	E	D		
P	A	Y	E	E	S	D	E	F	T	A	T	M
A	W	L	A	P	B	S	M	A	R	T	E	R
I	S	S	U	E	S	—	U	T	A	H		
J	U	M	P	I	N	G	A	B	T	E	R	Y
O	N	E	A	L	A	G	I	L	E	N	D	
T	E	S	T	Y	N	A	D	I	A	D	E	E

Solution to Sudoku

from page 8

1	9	5	3	4	7	2	6	8
7	8	3	2	9	6	1	5	4
4	6	2	5	8	1	7	9	3
8	1	4	6	2	9	3	7	5
2	3	9	7	5	4	8	1	6
6	5	7	8	1	3	4	2	9
3	4	1	9	7	5	6	8	2
9	2	6	1	3	8	5	4	7
5	7	8	4	6	2	9	3	1

Solution to Techdoku

from page 8

4	2	6	5	3	1
3	1	5	4	2	6
1	5	3	2	6	4
5	3	1	6	4	2
6	4	2	1	5	3
2	6	4	3	1	5

New Frank Stanton Chair for Course 17

First historian elected to position

Nuclear, from Page 1

tions following a nuclear attack.

"The Stanton Foundation has provided incredible opportunities to develop better understanding of nuclear dangers, not just for me but for senior scholars at other universities, and for younger scholars with their fellowships," Gavin says.

The appointment of Gavin is somewhat unconventional, as he is a historian by training rather than a political scientist. "I don't know that there's another political science department in the country that would do that; it shows why MIT is such an extraordinary place," says Gavin, whose recently published "Nuclear Statecraft: History and Strategy in America's Atomic Age" draws on years of research into declassified archival documents to challenge conventional assumptions about how U.S. nuclear policy was developed.

"There was a sense among many of the great thinkers that the larger issues of nuclear dynamics were resolved 40 years ago," says Gavin, "but they weren't, and still aren't,

and probably won't be. Wrestling with complex technical issues is often a challenge in the policy world and in a democracy, whether it's the National Security Agency, cyber warfare, or nuclear technology. It's important to understand the technology, but also to understand that everything is done in a political context, and frankly, it's the political context that matters more — politics always trumps technology."

With this in mind, Gavin says he hopes to expose students and researchers to the historian's thought process and methods, including quantitative and formal tools. "I'm convinced that to understand international politics, you have to understand history and think historically," he says. "What's so gratifying is that everyone in the department seems to agree, and that's rare. It's a big part of why this is my dream job — having the smartest colleagues and the best grad students, working in a friendly, collaborative organizational culture, and living in an area that's a Hollywood for intellectual life."

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UPCOMING HOME EVENTS

Saturday, February 15

Rifle vs. SUNY Maritime	9 a.m., DuPont Athletic Center
Rifle vs. Wentworth	9 a.m., DuPont Athletic Center
Women's Basketball vs. Clark University	2 p.m., Rockwell Cage

Sunday, February 16

Rifle vs. Wentworth	9 a.m., DuPont Athletic Center
Rifle vs. SUNY Maritime	9 a.m., DuPont Athletic Center



Joseph F. Rafidi '14 scores a touch on his opponent from UNC at Duke University Invitational this past Saturday. MIT fencing team competed on Feb. 8 and Feb. 9 at Duke University Invitational. The men's team defeated the U.S. Air Force Academy.

SHERRY REN

MIT women's basketball team works with Athletes Unlimited

Athletes Unlimited is a Massachusetts therapeutic recreation program for people who have disabilities

By Mindy Brauer

DAPER STAFF

It was not a typical Wednesday night for the MIT women's basketball team, who participated in an event complete with dance parties on the sidelines with opposing players. The team took advantage of its bye from NEWMAC action to train with the Pointsetters of Athletes Unlimited in neighboring Newton.

Based on a model similar to Special Olympics, Athletes Unlimited is one of the largest community-based therapeutic recreation programs for people with disabilities in Massachusetts. Serving over 250 local athletes, a variety of year-round programs provide something for everyone, including track, tennis, Zumba, and yoga.

A very spirited and competitive group, the Pointsetters practice every Wednesday and play in a tournament at the end of the season. On this occasion, the squad was

a little shorthanded, so the Engineers were able to jump in and assist with a variety of drills before playing a game.

"We had a blast from the minute we walked in to the minute we left," said MIT captain Mari R. Kordell '15. "We were just as excited to be there as the Pointsetters were to have us. They were so enthusiastic and it puts into perspective that basketball isn't always about win-loss records and final scores."

The evening was also a personal one for MIT head coach Sonia Raman, as her brother, Nitin, is a member of the Pointsetters. "It was incredible having Nitin's team and my MIT team all on the court together as one big family," reflected Raman. "We are so fortunate to be in a position to give back, and doing so within the context of a sport we all love makes it a fun experience."

Mark Kelly, the Director of Special Needs for the Newton Parks and Recreation Department, thanked Raman and the women's basketball team for volunteering

with the Pointsetters. "Our athletes look forward to seeing the MIT players each year. We know these student-athletes have rigorous schedules both on and off the court and we are thankful they can find time to come volunteer with our athletes."

The evening was important to MIT's head coach, whose brother, Nitin, was a participant.

"It's great that there are programs like this for the athletes to play in," commented Kordell. "I think once anyone volunteers, they'll definitely want to come back and help again. We all wished we could have stayed longer and can't wait to come back."

If you would like to learn more about the program or volunteer please contact Mark Kelly at mkelley@newtonma.gov.

MIT ISN - Army Labs Student Summer Internship Program



Earn up to \$2864/month this summer!

Join the MIT ISN-ARMY Labs Summer Intern Research Program *

Program Summary: MIT undergraduate students conduct scientific and engineering research at Army Science and Technology Centers under the direction of Army Scientists, from June to August. The Army host and the student determine the exact starting and finishing dates. Most areas of science and engineering are of interest. The Army Lab host determines the project content and subject matter. Projects can be basic or applied research, or both and do not need to be related to the ISN mission or to nanotechnology

Professional Benefits

- Gain valuable research experience
- Build new professional relationships
- Access world-class research facilities
- Contribute to a team that is providing new, life-saving technologies

If you would like to learn more about this program, please consider registering at the website:

<https://isn.mit.edu/internship/index.php>

If you have questions about this program or experience difficulty using the website, please contact Marlisha McDaniels, via email: mmcd@mit.edu or at the ISN Headquarters, NE47-4th Fl. 617.324.4700.

The ISN The mission of the MIT Institute for Soldier Nanotechnologies is to help the Army dramatically enhance Soldier protection and survivability through basic research on nanotechnology and in collaboration with Army and industry partners to transition promising results of that basic research into practical capabilities.

*The Army Lab provides the intern's salary, which typically ranges from \$2280/month to \$2864/month depending on class year. Under certain circumstances the ISN can provide the intern with a supplement of up to \$1500 to defray costs of local accommodations and travel.

MIT loses 64-52 to WPI



Ryan L. Frankel '16 drives the ball to the basket in a game against Worcester Polytechnic Institute on Wednesday. MIT lost 64-52.

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